

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM110720\
 Data File : BM027741.D
 Acq On : 07 Nov 2020 02:47
 Operator : JU/CG
 Sample : L4485-06
 Misc : SFAM-SIM-MDL-S-07
 ALS Vial : 5 Sample Multiplier: 1

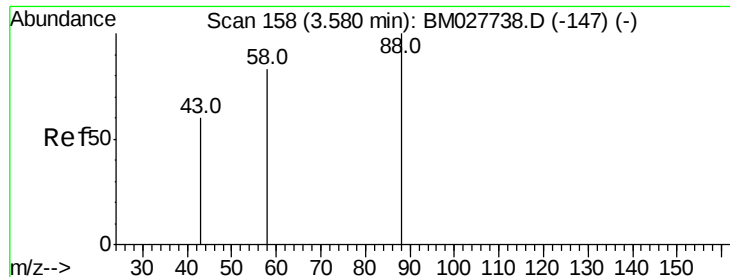
Instrument :
 BNA_M
 ClientSampleId :
 MDL-SOIL-06

Quant Time: Nov 07 03:29:28 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SFAM-EPA-SIM-BM110520.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Nov 07 02:24:33 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.40	152	436	0.40	ng/ul	0.00
4) Naphthalene-d8	11.24	136	1424	0.40	ng/ul	0.00
9) Acenaphthene-d10	15.01	164	893	0.40	ng/ul	0.00
13) Phenanthrene-d10	17.72	188	1950	0.40	ng/ul	0.00
19) Chrysene-d12	21.81	240	1658	0.40	ng/ul	0.00
23) Perylene-d12	24.26	264	1514	0.40	ng/ul	0.00
System Monitoring Compounds						
3) 1,4-Dioxane-d8	3.54	96	254	0.57	ng/ul	0.00
6) 2-Methylnaphthalene-d10	12.79	152	699	0.30	ng/ul	0.00
17) Fluoranthene-d10	19.70	212	1522	0.29	ng/ul	0.00
Target Compounds				Ovalue		
2) 1,4-Dioxane	3.58	88	38	0.079	ng/ul#	83
5) Naphthalene	11.28	128	269	0.067	ng/ul#	62
7) 2-Methylnaphthalene	12.87	142	186	0.067	ng/ul	97
8) 1-Methylnaphthalene	13.09	142	172	0.065	ng/ul	99
10) Acenaphthylene	14.73	152	247	0.062	ng/ul#	69
11) Acenaphthene	15.07	153	192	0.063	ng/ul	94
12) Fluorene	16.04	166	225	0.063	ng/ul#	94
14) Pentachlorophenol	17.36	266	56	0.087	ng/ul	95
15) Phenanthrene	17.76	178	456	0.080	ng/ul#	84
16) Anthracene	17.85	178	368	0.066	ng/ul#	76
18) Fluoranthene	19.73	202	688	0.104	ng/ul#	85
20) Pyrene	20.09	202	650	0.100	ng/ul#	87
21) Benzo(a)anthracene	21.80	228	530	0.087	ng/ul#	87
22) Chrysene	21.85	228	547	0.088	ng/ul#	88
24) Benzo(b)fluoranthene	23.51	252	559	0.092	ng/ul#	68
25) Benzo(k)fluoranthene	23.56	252	477	0.079	ng/ul#	62
26) Benzo(a)pyrene	24.15	252	473	0.086	ng/ul#	61
27) Indeno(1,2,3-cd)pyrene	26.79	276	514	0.079	ng/ul#	97
28) Dibenzo(a,h)anthracene	26.80	278	393	0.073	ng/ul#	61
29) Benzo(g,h,i)perylene	27.58	276	454	0.083	ng/ul#	71

(#) = qualifier out of range (m) = manual integration (+) = signals summed

```
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ALS Vial  : 5 Sample Multiplier: 1
```



#2

1,4-Dioxane

Concen: 0.079 ng/ul

RT: 3.58 min Scan# 157

Delta R.T. -0.00 min

Lab File: BM027741.D

Acq: 07 Nov 2020 02:47

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-06

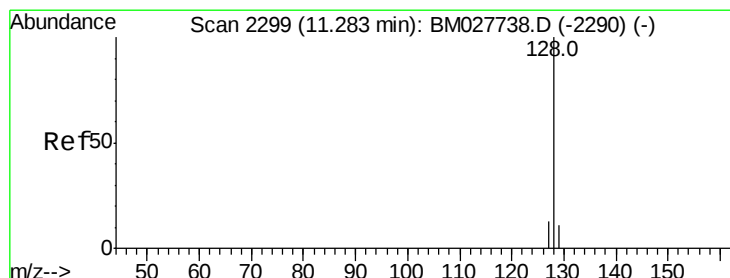
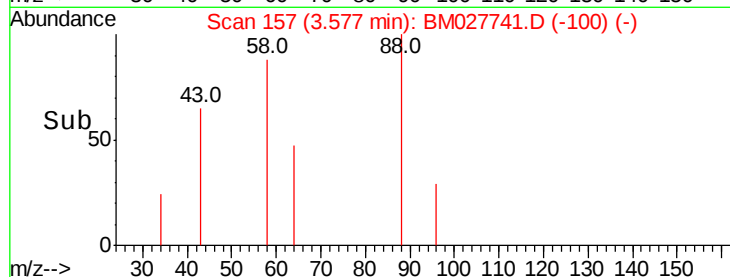
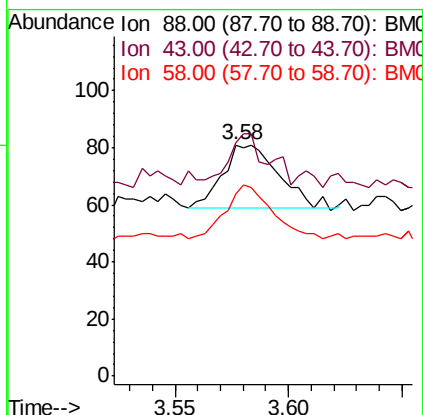
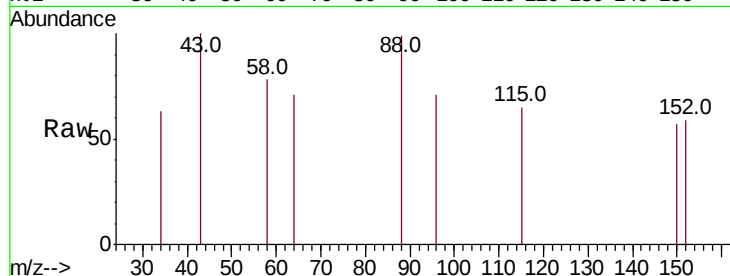
Tot Ion: 88 Resp: 38

Ion Ratio Lower Upper

88 100

43 101.2 61.8 92.6#

58 79.0 67.8 101.8



#5

Naphthalene

Concen: 0.067 ng/ul

RT: 11.28 min Scan# 2299

Delta R.T. -0.00 min

Lab File: BM027741.D

Acq: 07 Nov 2020 02:47

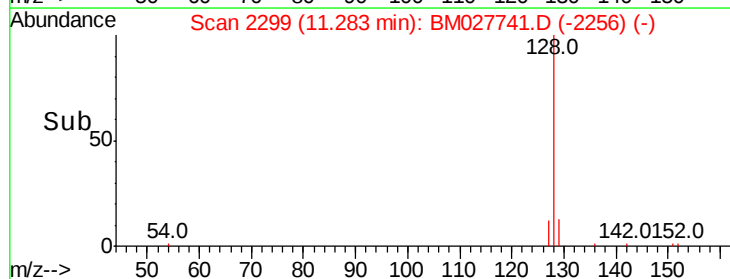
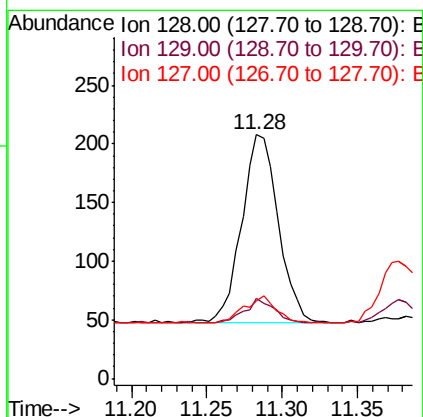
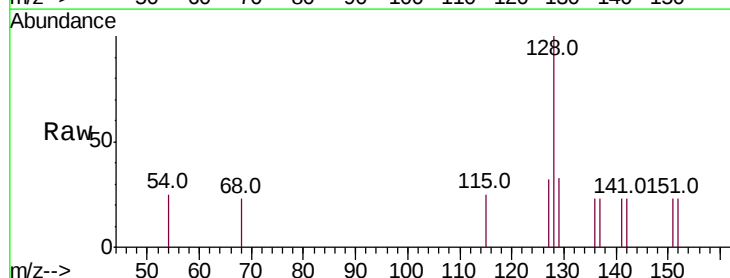
Tgt Ion: 128 Resp: 269

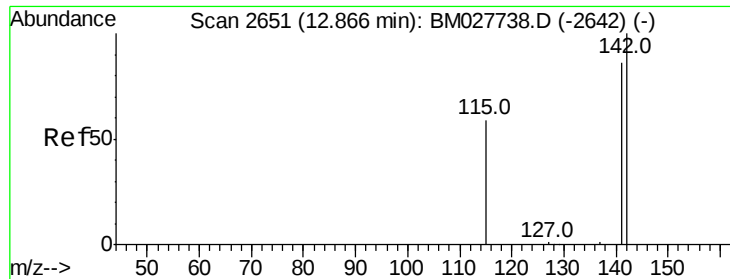
Ion Ratio Lower Upper

128 100

129 32.7 11.7 17.5#

127 31.7 14.0 21.0#





#7

2-Methylnaphthalene

Concen: 0.067 ng/ul

RT: 12.87 min Scan# 2651

Delta R.T. 0.00 min

Lab File: BM027741.D

Acq: 07 Nov 2020 02:47

Instrument :

BNA_M

ClientSampleId :

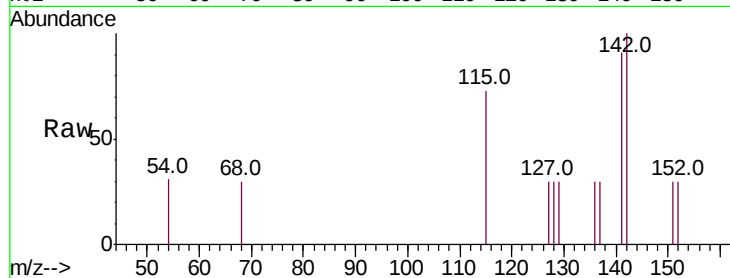
MDL-SOIL-06

Tot Ion:142 Resp: 186

Ion Ratio Lower Upper

142 100

141 86.6 71.2 106.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

12.87

150

100

50

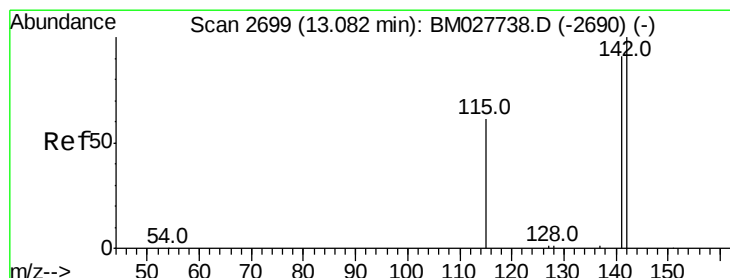
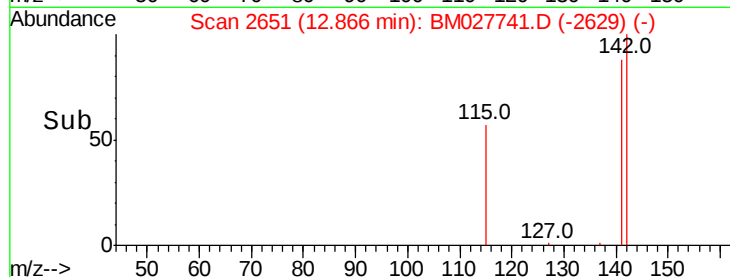
0

Time-->

12.80

12.85

12.90



#8

1-Methylnaphthalene

Concen: 0.065 ng/ul

RT: 13.09 min Scan# 2700

Delta R.T. 0.00 min

Lab File: BM027741.D

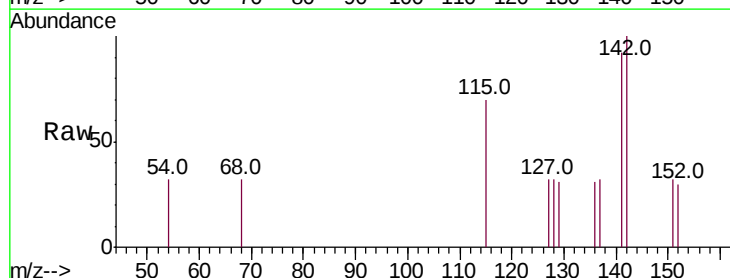
Acq: 07 Nov 2020 02:47

Tgt Ion:142 Resp: 172

Ion Ratio Lower Upper

142 100

141 91.3 74.1 111.1



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

13.09

150

100

50

0

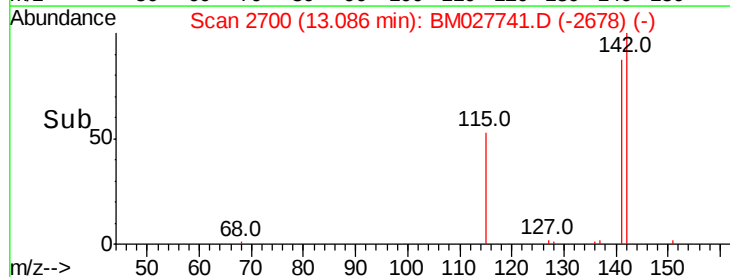
Time-->

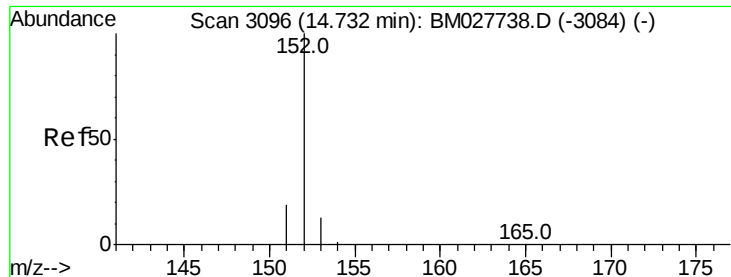
13.00

13.05

13.10

13.15





#10

Acenaphthylene

Concen: 0.062 ng/ul

RT: 14.73 min Scan# 3096

Delta R.T. 0.00 min

Lab File: BM027741.D

Acq: 07 Nov 2020 02:47

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-06

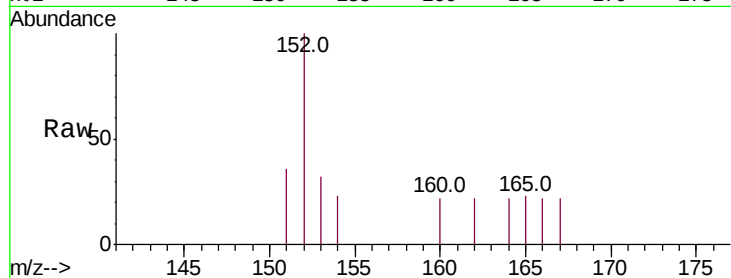
Tot Ion:152 Resp: 247

Ion Ratio Lower Upper

152 100

151 35.7 17.8 26.8#

153 31.9 13.5 20.3#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

14.73

250

200

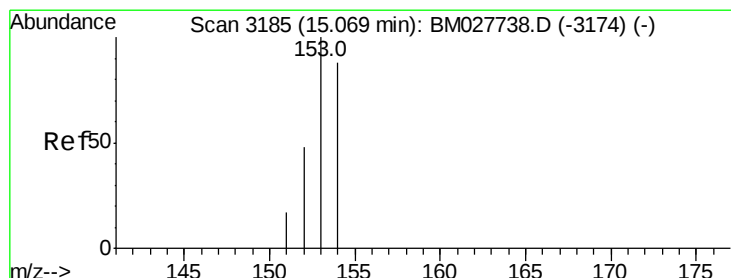
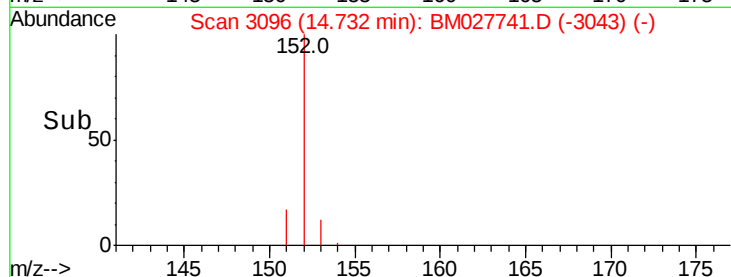
150

100

50

0

Time--> 14.65 14.70 14.75



#11

Acenaphthene

Concen: 0.063 ng/ul

RT: 15.07 min Scan# 3185

Delta R.T. 0.00 min

Lab File: BM027741.D

Acq: 07 Nov 2020 02:47

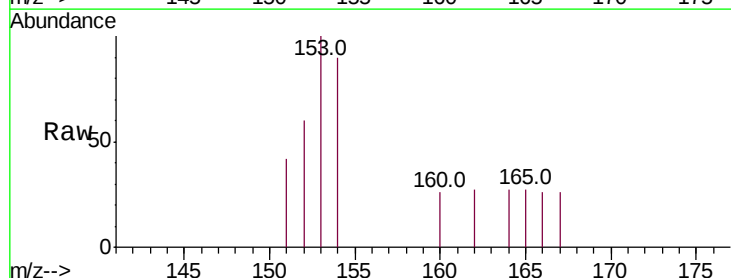
Tgt Ion:153 Resp: 192

Ion Ratio Lower Upper

153 100

152 60.1 40.6 60.8

154 89.6 71.0 106.4



Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E

15.07

250

200

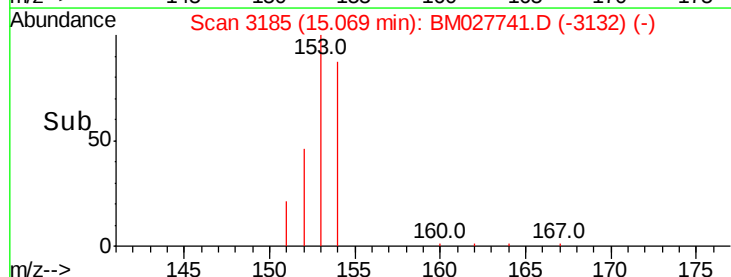
150

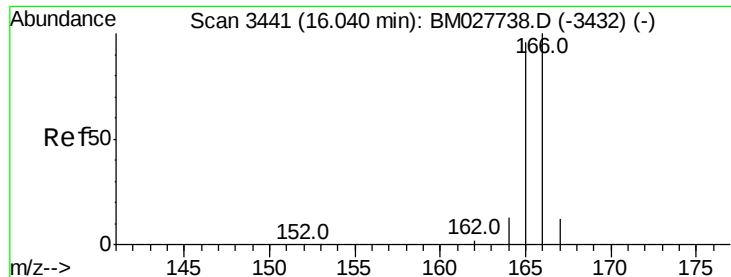
100

50

0

Time--> 15.00 15.05 15.10





#12

Fluorene

Concen: 0.063 ng/ul

RT: 16.04 min Scan# 3441

Delta R.T. 0.00 min

Lab File: BM027741.D

Acq: 07 Nov 2020 02:47

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-06

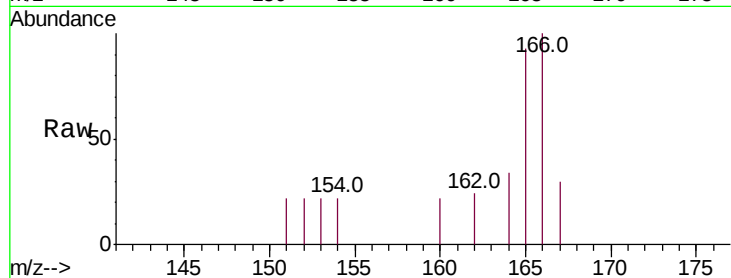
Tot Ion:166 Resp: 225

Ion Ratio Lower Upper

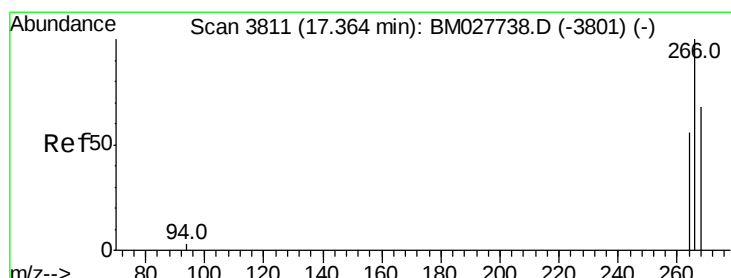
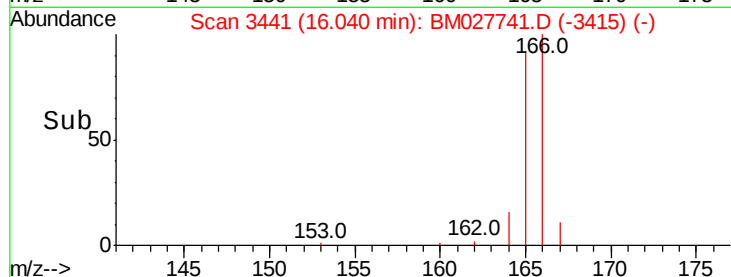
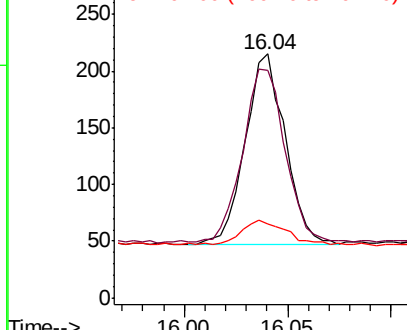
166 100

165 93.5 76.2 114.4

167 30.2 13.7 20.5#



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E



#14

Pentachlorophenol

Concen: 0.087 ng/ul

RT: 17.36 min Scan# 3810

Delta R.T. -0.00 min

Lab File: BM027741.D

Acq: 07 Nov 2020 02:47

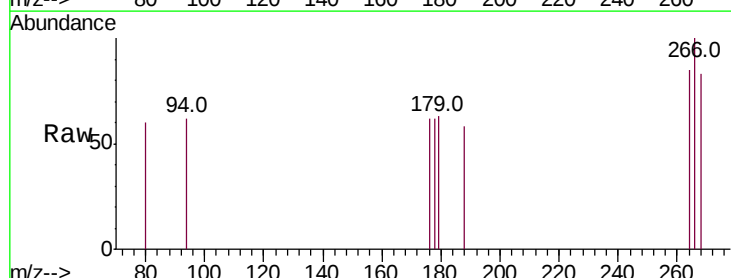
Tgt Ion:266 Resp: 56

Ion Ratio Lower Upper

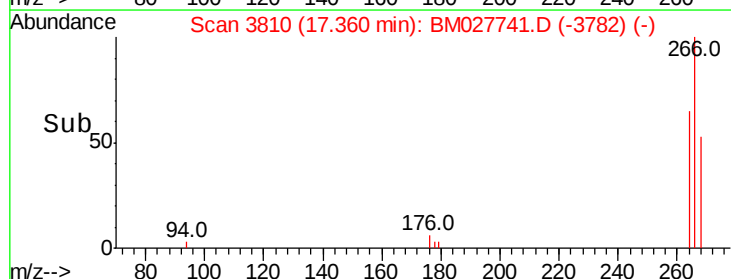
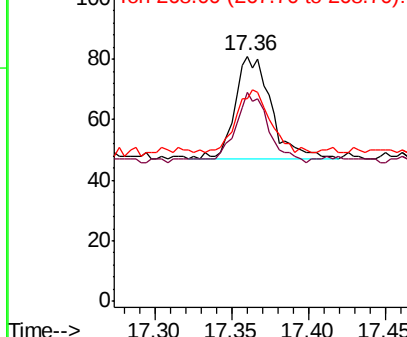
266 100

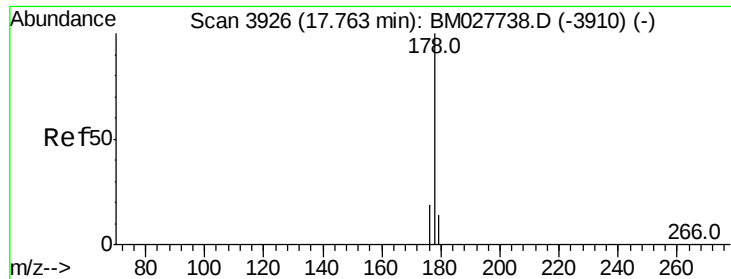
264 62.5 48.2 72.4

268 60.7 53.4 80.0



Abundance Ion 266.00 (265.70 to 266.70): E
Ion 264.00 (263.70 to 264.70): E
Ion 268.00 (267.70 to 268.70): E





#15

Phenanthrene

Concen: 0.080 ng/ul

RT: 17.76 min Scan# 3925

Delta R.T. 0.00 min

Lab File: BM027741.D

Acq: 07 Nov 2020 02:47

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-06

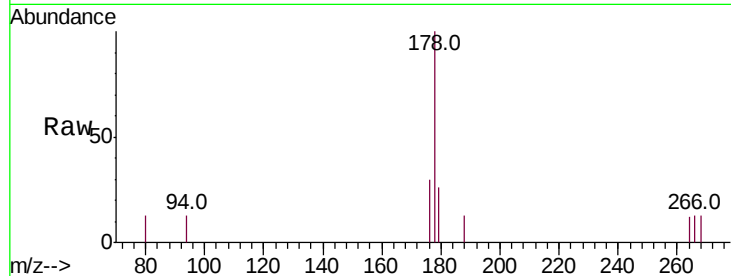
Tot Ion:178 Resp: 456

Ion Ratio Lower Upper

178 100

179 26.2 14.6 22.0#

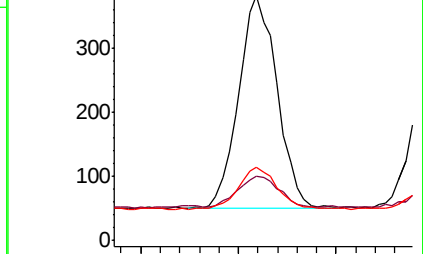
176 29.6 18.2 27.2#



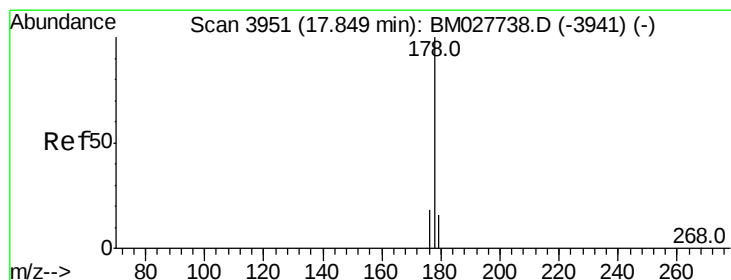
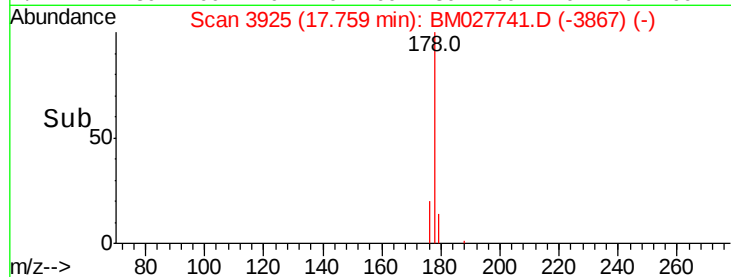
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



Time-->



#16

Anthracene

Concen: 0.066 ng/ul

RT: 17.85 min Scan# 3952

Delta R.T. 0.00 min

Lab File: BM027741.D

Acq: 07 Nov 2020 02:47

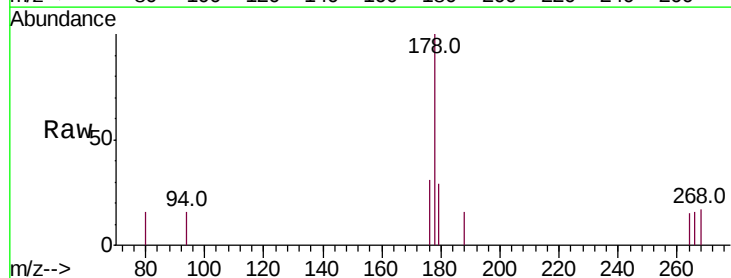
Tgt Ion:178 Resp: 368

Ion Ratio Lower Upper

178 100

179 28.9 14.1 21.1#

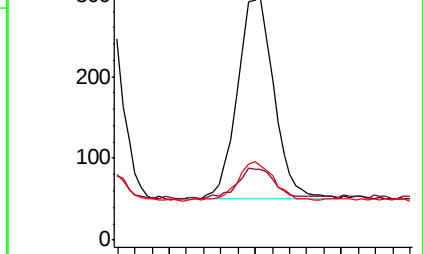
176 30.5 16.3 24.5#



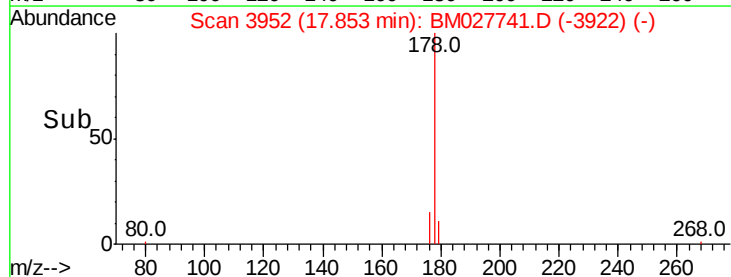
Abundance Ion 178.00 (177.70 to 178.70): E

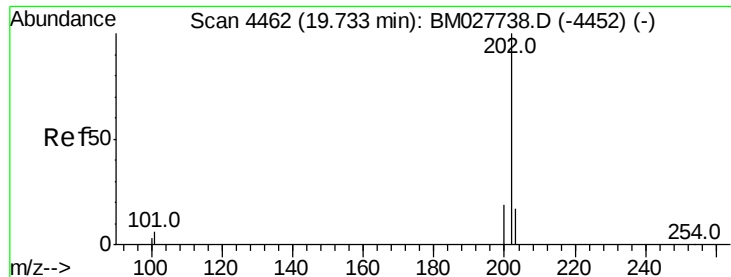
Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



Time-->

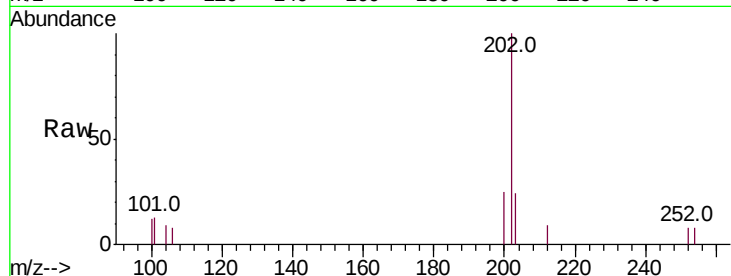




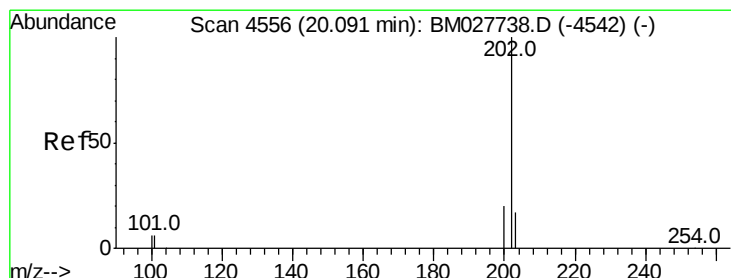
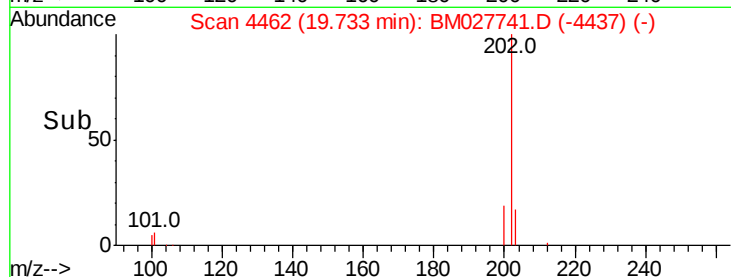
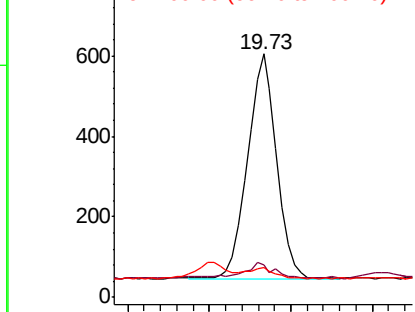
#18
Fluoranthene
 Concen: 0.104 ng/ul
 RT: 19.73 min Scan# 4462
 Delta R.T. -0.00 min
 Lab File: BM027741.D
 Acq: 07 Nov 2020 02:47

Instrument :
 BNA_M
 ClientSampleId :
 MDL-SOIL-06

Tot Ion	Ratio	Lower	Upper
202	100		
101	13.2	6.1	9.1#
100	12.1	5.8	8.6#

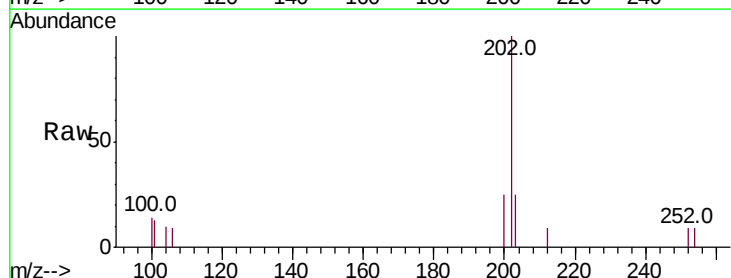


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 100.00 (99.70 to 100.70): B

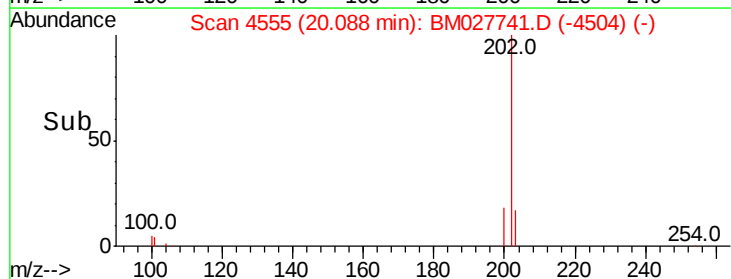
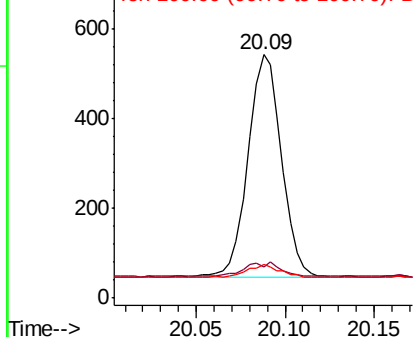


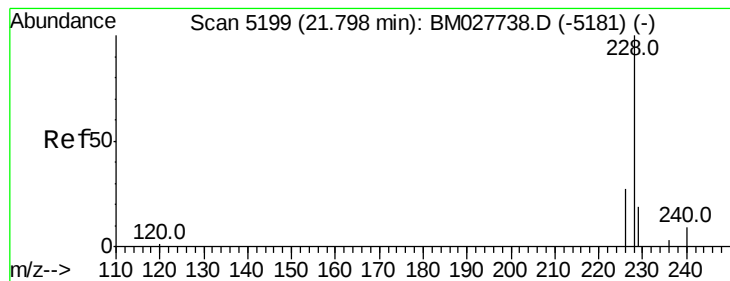
#20
Pyrene
 Concen: 0.100 ng/ul
 RT: 20.09 min Scan# 4555
 Delta R.T. -0.00 min
 Lab File: BM027741.D
 Acq: 07 Nov 2020 02:47

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.9	7.4	11.0#
100	13.6	6.6	9.8#



Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 100.00 (99.70 to 100.70): B





#21

Benzo(a)anthracene

Concen: 0.087 ng/ul

RT: 21.80 min Scan# 5199

Delta R.T. -0.00 min

Lab File: BM027741.D

Acq: 07 Nov 2020 02:47

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-06

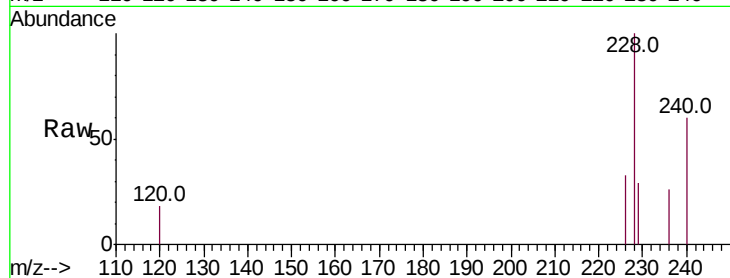
Tot Ion:228 Resp: 530

Ion Ratio Lower Upper

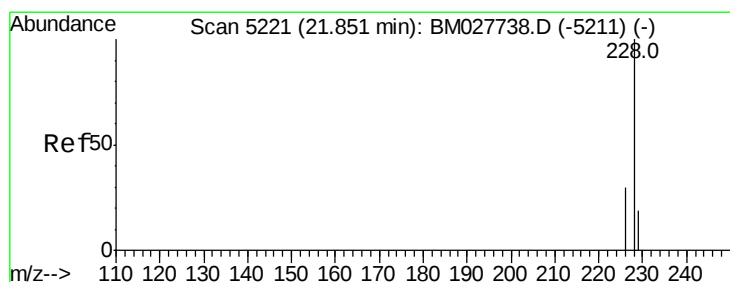
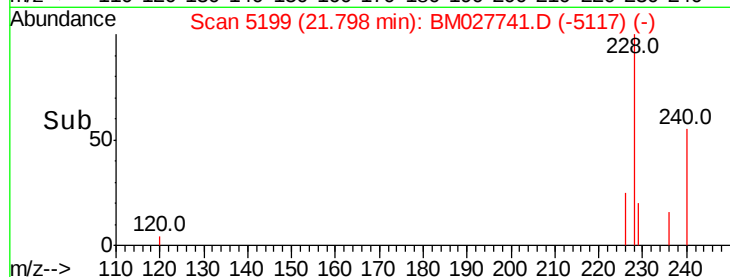
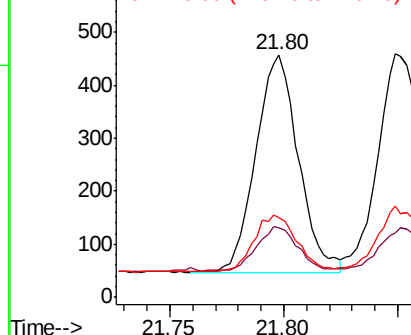
228 100

229 28.8 17.0 25.4#

226 32.8 22.0 33.0



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 229.00 (228.70 to 229.70): E
Ion 226.00 (225.70 to 226.70): E



#22

Chrysene

Concen: 0.088 ng/ul

RT: 21.85 min Scan# 5220

Delta R.T. -0.01 min

Lab File: BM027741.D

Acq: 07 Nov 2020 02:47

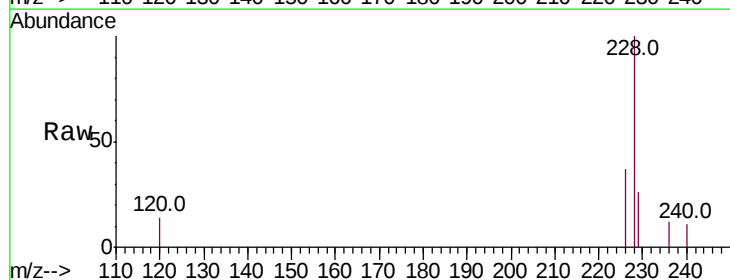
Tgt Ion:228 Resp: 547

Ion Ratio Lower Upper

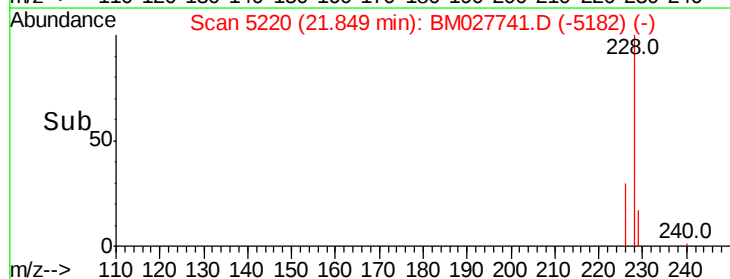
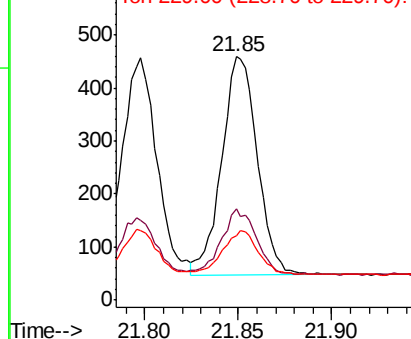
228 100

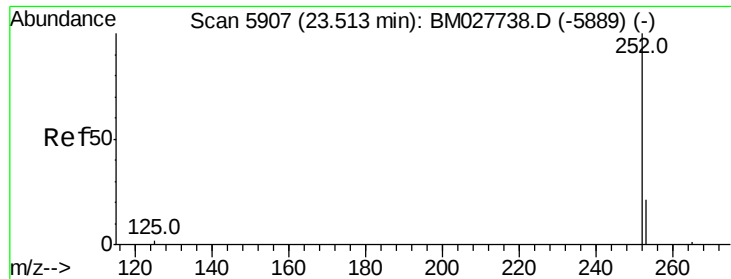
226 37.3 24.0 36.0#

229 26.4 16.9 25.3#



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





#24

Benzo(b)fluoranthene

Concen: 0.092 ng/ul

RT: 23.51 min Scan# 5907

Delta R.T. -0.00 min

Lab File: BM027741.D

Acq: 07 Nov 2020 02:47

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-06

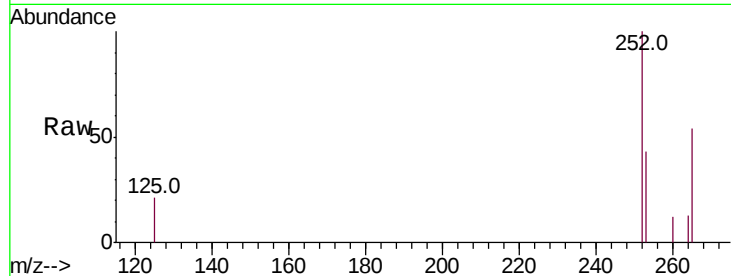
Tot Ion:252 Resp: 559

Ion Ratio Lower Upper

252 100

253 42.6 0.0 53.0

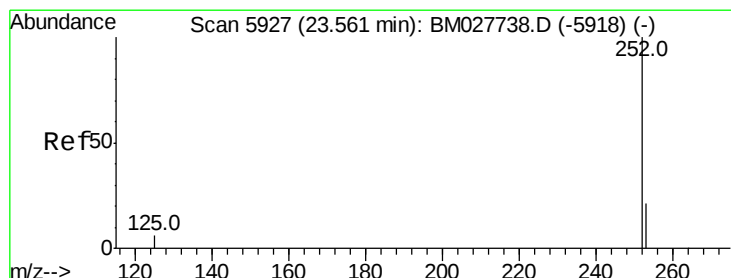
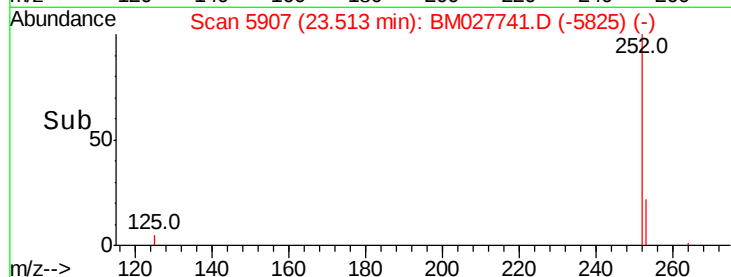
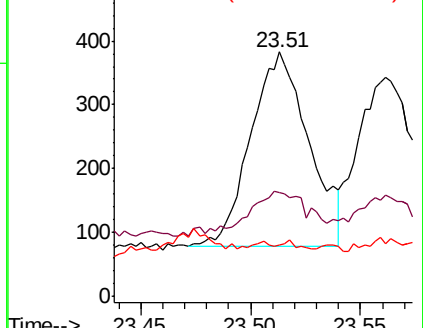
125 20.6 0.0 17.6#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#25

Benzo(k)fluoranthene

Concen: 0.079 ng/ul

RT: 23.56 min Scan# 5927

Delta R.T. -0.01 min

Lab File: BM027741.D

Acq: 07 Nov 2020 02:47

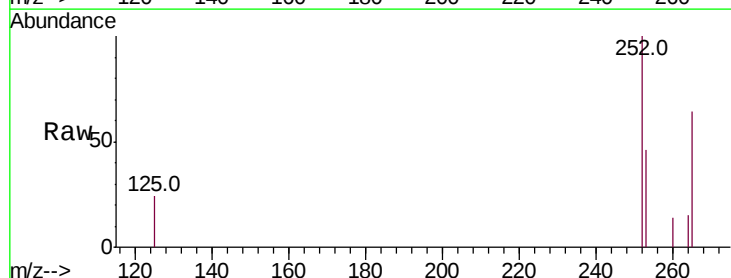
Tgt Ion:252 Resp: 477

Ion Ratio Lower Upper

252 100

253 45.9 21.4 32.2#

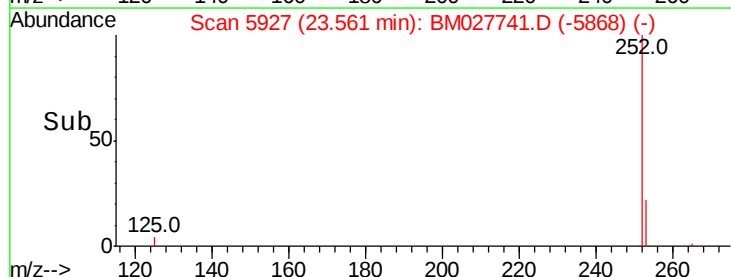
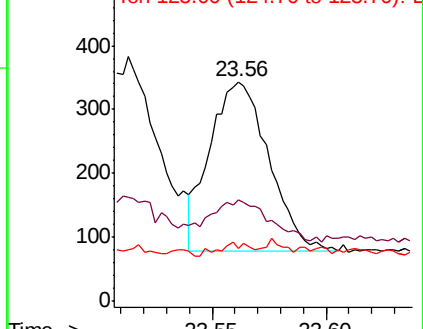
125 23.8 7.4 11.0#

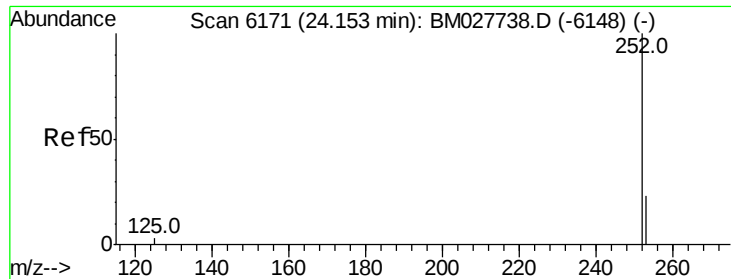


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

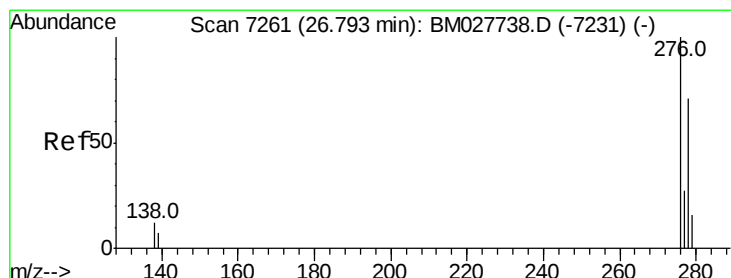
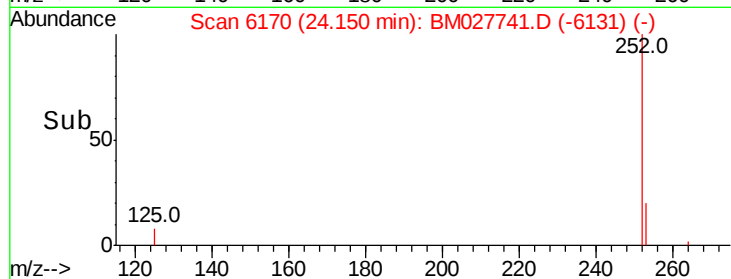
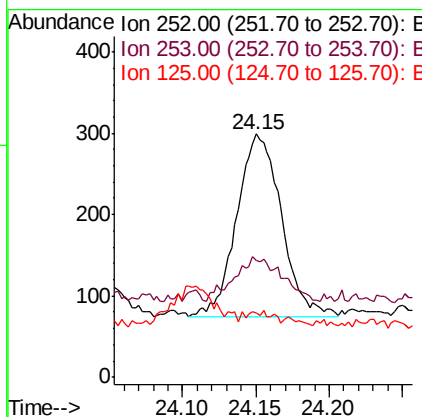
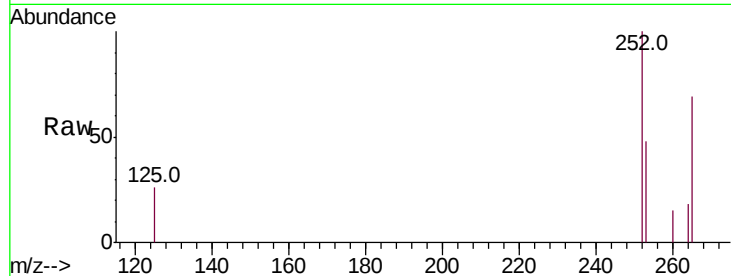




#26
Benzo(a)pyrene
Concen: 0.086 ng/u1
RT: 24.15 min Scan# 6170
Delta R.T. -0.00 min
Lab File: BM027741.D
Acq: 07 Nov 2020 02:47

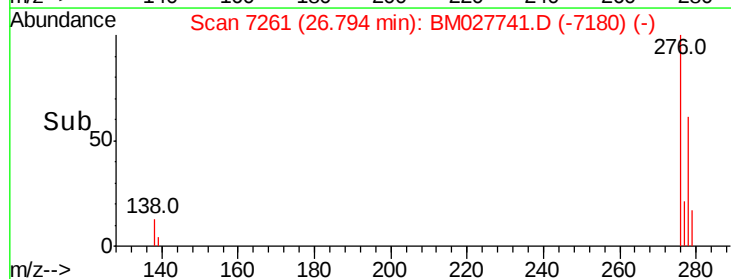
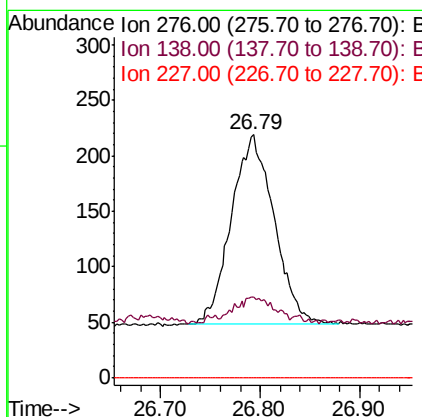
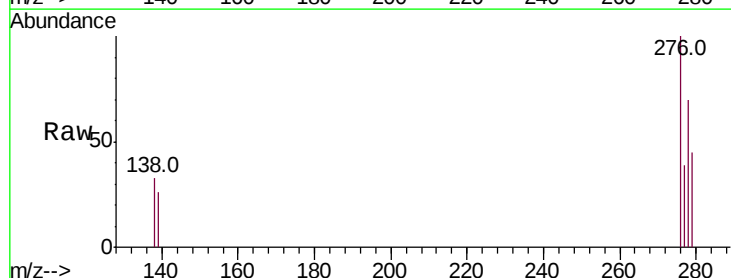
Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-06

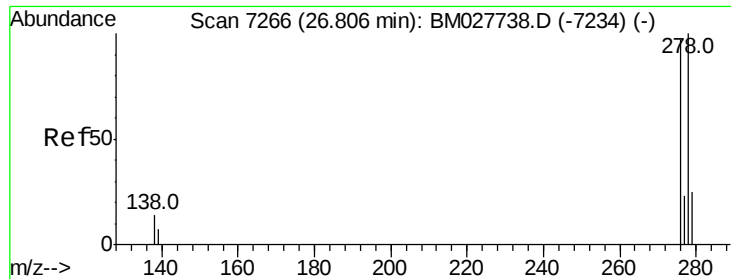
Tot Ion:252 Resp: 473
Ion Ratio Lower Upper
252 100
253 48.2 22.3 33.5#
125 26.4 8.8 13.2#



#27
Indeno(1,2,3-cd)pyrene
Concen: 0.079 ng/u1
RT: 26.79 min Scan# 7261
Delta R.T. -0.00 min
Lab File: BM027741.D
Acq: 07 Nov 2020 02:47

Tgt Ion:276 Resp: 514
Ion Ratio Lower Upper
276 100
138 12.6 11.0 16.6
227 0.0 0.0 0.0





#28

Dibenzo(a,h)anthracene

Concen: 0.073 ng/ul

RT: 26.80 min Scan# 7264

Delta R.T. -0.01 min

Lab File: BM027741.D

Acq: 07 Nov 2020 02:47

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-06

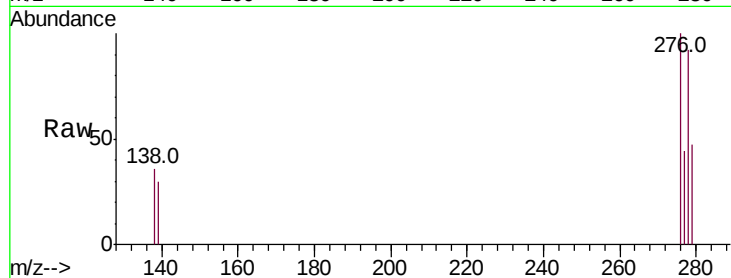
Tot Ion:278 Resp: 393

Ion Ratio Lower Upper

278 100

139 32.4 12.6 18.8#

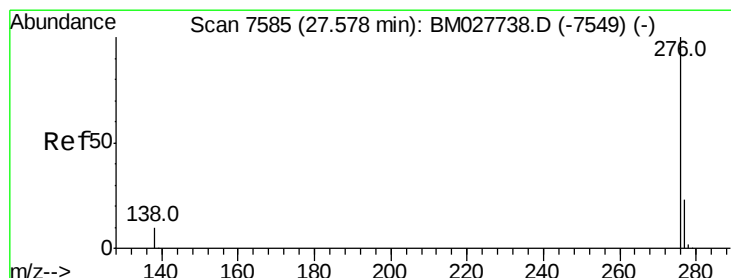
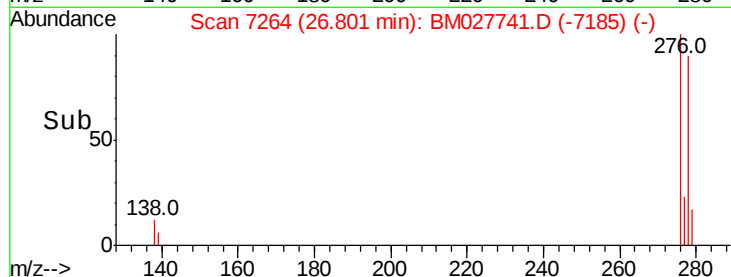
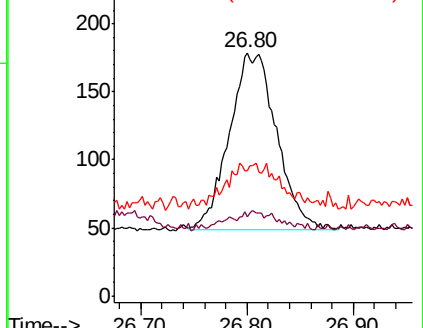
279 51.4 24.3 36.5#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#29

Benzo(g,h,i)perylene

Concen: 0.083 ng/ul

RT: 27.58 min Scan# 7585

Delta R.T. -0.00 min

Lab File: BM027741.D

Acq: 07 Nov 2020 02:47

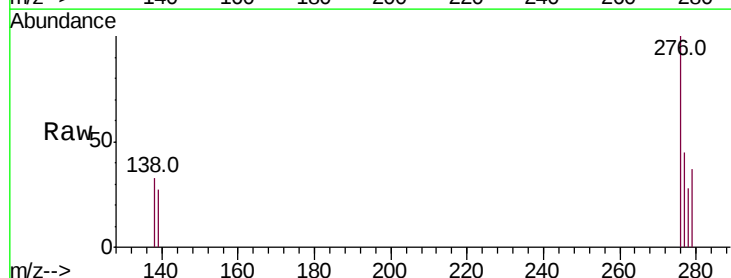
Tgt Ion:276 Resp: 454

Ion Ratio Lower Upper

276 100

138 32.8 15.0 22.4#

277 45.2 24.2 36.2#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

